

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-18. (Cancelled)

19. (Currently AMENDED) A Thermal ink jet printhead ~~(40)~~ comprising a reservoir ~~(103)~~ containing ink ~~(142)~~, a die ~~(61)~~, a slot ~~(102)~~ etched in said die ~~(61)~~ and fluidly connected with said reservoir ~~(103)~~, and a plurality of ejectors ~~(73)~~ each of which in turn comprises a nozzle ~~(56)~~ having an outer edge ~~(66)~~, and a chamber ~~(74)~~, said ink ~~(142)~~ forming a meniscus ~~(54)~~ on said outer edge ~~(66)~~, and each of said ejectors ~~(73)~~ presenting a time constant τ ,

wherein each of said chambers ~~(74)~~ is fluidly connected with said slot ~~(102)~~ through a plurality of elementary ducts ~~(72)~~ each having width g determined by means of the formula

$$g = \sqrt{12 * v * \tau}$$

where v is the viscosity of the ink and τ is the time constant assigned to each of said ejectors ~~(73)~~, and the number N of said elementary ducts ~~(72)~~ is determined by means of the formula

$$N = (R')^2 * \frac{C_m}{4 L'}$$

where R' and L' represent respectively the hydraulic resistance and the hydraulic ~~inertance~~ resistance of a single elementary duct ~~(72)~~, and C_m represents the hydraulic compliance of said meniscus ~~(54)~~, whereby said meniscus ~~(54)~~ presents a critical damping with whatever value is assigned to τ .

20. (Currently AMENDED) The printhead ~~Printhead~~ according to claim 19, wherein said chamber ~~(74)~~ comprises a bottom ~~(67)~~, and that said elementary ducts ~~(72)~~ are fluidly connected with said chamber ~~(74)~~ through said bottom ~~(67)~~.

21. (Currently AMENDED) The Printhead printhead according to claim 19, wherein each of said elementary ducts ~~(72)~~ has a substantially rectangular section.

22. (Currently AMENDED) The printhead ~~Printhead~~ according to claim 21, wherein said substantially rectangular section has a depth (~~f~~) and a width (~~g~~), and that said width (~~g~~) is between 3 and 15 μm .

23. (Currently AMENDED) The printhead ~~Printhead~~ according to claim 19, wherein each of said chambers (~~74~~) comprises a tank (~~63~~) fluidly connected with said plurality of elementary ducts (~~72~~).

24. (Currently AMENDED) The printhead ~~Printhead~~ according to claim 22, wherein said depth (~~f~~) is between 5 and 100 μm .

25-26. (Cancelled)